

MEASUREMENT NOTES

LEFT BANK: Sloping Vertical Other: _____

RIGHT BANK: Sloping Vertical Other _____

[illegible]

Notes:

Station Number: Ohio_US_60_bridge
Station Name: Ohio_Rr_before_Confluence

Meas. No: 4
Date: 05/12/2011

Party: CBR/KHM	Width: 2,610 ft	Processed by: CBR
Boat/Motor: 513	Area: 175,000 ft²	Mean Velocity: 5.30 ft/s
Gage Height: 0.00 ft	G.H.Change: 0.000 ft	Discharge: 928,000 ft³/s

Area Method: Avg. Course	ADCP Depth: 0.420 ft	Index Vel.: 0.00 ft/s	Rating No.: 1
Nav. Method: Bottom Track	Shore Ens.:10	Adj.Mean Vel: 0.00 ft/s	Qm Rating: F
MagVar Method: Model (-1.4°)	Bottom Est: Power (0.1667)	Rated Area: 0.000 ft²	Diff.: 0.000%
Depth Sounder: Not Used	Top Est: Power (0.1667)	Control1: Unspecified	
		Control2: Unspecified	
		Control3: Unspecified	

Screening Thresholds:		ADCP:
BT 3-Beam Solution: YES	Max. Vel.: 10.3 ft/s	Type/Freq.: Rio Grande/1200 kHz
WT 3-Beam Solution: NO	Max. Depth: 106 ft	Serial #: 5954 Firmware: 10.16
BT Error Vel.: 0.33 ft/s*	Mean Depth: 67.1 ft	Bin Size: 25 cm Blank: 25 cm
WT Error Vel.: 3.50 ft/s	% Meas.: 86.13	BT Mode: 5 BT Pings: 1
BT Up Vel.: 1.00 ft/s	Water Temp.: 18.5 °C	WT Mode: 12 WT Pings: 1
WT Up Vel.: 11.00 ft/s	ADCP Temp.: 18.7 °C	WV : 196 WO : 4, 19
Use Weighted Mean Depth: YES		

Performed Diag. Test: YES
Performed Moving Bed Test: YES
Performed Compass Test: YES
Meas. Location: US of 60 bridge

Project Name: Ohio_US_60_Bridge_4.mmt
Software: 2.07

Tr.#		Edge Distance		#Ens.	Discharge					Width	Area	Time		Mean Vel.		% Bad			
		L	R		Top	Middle	Bottom	Left	Right			Total	Start	End	Boat	Water	Ens.	Bins	
000	R	30	51	191	28179	806686	85137	653	1326	921980	2621	178576	10:26	10:33	6.71	5.16	8	0	
001	L	30	50	226	28378	780117	113116	381	3367	925358	2600	173709	10:33	10:41	5.73	5.33	14	3	
002	R	20	50	185	28613	805298	90519	362	2250	927043	2609	175866	10:41	10:48	7.12	5.27	9	0	
003	L	20	45	204	28899	804383	101161	216	2028	936687	2619	172884	10:48	10:55	6.35	5.42	10	1	
Mean		25	49	201	28517	799121	97483	403	2243	927767	2612	175259	Total	00:29	6.48	5.30	10	1	
SDev		6	3	18	311	12705	12367	182	847	6308	9.9	2543.6				0.59	0.11		
SD/M		0.23	0.06	0.09	0.01	0.02	0.13	0.45	0.38	0.01	0.00	0.01				0.09	0.02		

Remarks: BT Reference. Loop Test correction = 3.63%

* - value not consistent for all transects

Ohio_US_60_Bridge_4_000_11-05-12_ASC20110512

LC Version 3.00, February 1, 2010

Processed on: 12-May-2011

Loop File: Ohio_US_60_Bridge_4_004_11-05-12_LBT_ASC.TXT

Distance Made Good (ft)	Loop Time (sec)	Moving Bed Velocity (ft/s)	Moving Bed Direction (degrees)	Flow Direction (degrees)	Estimated Percent Correction (percent)
173.56	867.34	0.20	318.40	142.04	3.63

Percent Bad Bottom Track: 13.6

WARNING: Percentage of bad bottom track values exceeds 5.
Loop may not be accurate. Please review data.

Difference in flow direction between out and back sections: 1.9 deg

Loop Indicates a Moving Bed -- Select transects to be corrected

File Name	Original Discharge cfs	Adjusted Discharge cfs
0_Bridge_4_000_11-05-12_ASC.TXT	921980.50	961334.17
0_Bridge_4_001_11-05-12_ASC.TXT	925358.40	962012.12
0_Bridge_4_002_11-05-12_ASC.TXT	927043.00	966325.42
0_Bridge_4_003_11-05-12_ASC.TXT	936686.50	973326.74
Average	927767.10	965749.61